

Special Issue

Animal Cognition and Decision Strategies: From Behaviour to Computation

Message from the Guest Editors

A central imperative in cognitive and behavioural neuroscience is to understand not just what an animal does, but how and why it decides to do what it does. Interpreting animal performance in behavioural tasks is inherently challenging, as most can be solved through multiple, often hidden, cognitive strategies. Animal models remain the cornerstone of behavioural neuroscience and neuroengineering, offering invaluable access to the neural, computational, and ecological drivers of behaviour. We welcome studies using classical species (e.g., non-human primates, rodents, zebrafish), as well as key emerging and non-traditional models (e.g., insects, cephalopods, songbirds), that advance our understanding of cognitive and behavioural processes. Moreover, we welcome contributions that infer latent cognitive processes from behaviour or apply computational or theoretical approaches to uncover the mechanisms of intelligent action. By uniting these perspectives, this Special Issue aims to advance our understanding of natural intelligence, fostering a new synthesis of insights that bridges behavioural neuroscience and AI.

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A major strength of biological science is the diversity of approaches that biological scientists apply to their research problems. *Biology* reflects this diversity and brings together studies employing the varied experimental and theoretical approaches that are fueling biological discovery. *Biology*, the journal, is a fully peer-reviewed publication with a rapid and economical route to open access publication and is listed on PubMed. All articles are peer-reviewed and the editorial focus is on determining that the work is scientifically sound rather than trying to predict its future impact.

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